

**DRAFT AGENDA**  
**Virginia Geologic Research Symposium 2016**  
**Division of Geology and Mineral Resources**  
**900 Natural Resources Drive, Charlottesville, VA 22903**  
**Thursday, April 28, 2016**

- 8:00 – 8:30 a.m.      Registration and “Meet and Greet” with refreshments
- 8:30 – 8:40 a.m.      The State of the State Geological Survey – *David Spears, DGMR*
- 8:40 – 9:40 a.m.      **Technical Session #1**
- 8:40 – 9:00      Provenance analysis of magnetic particles from sediments of the James River – *Arif Sikder, Virginia Commonwealth University*
- 9:00 – 9:20      Long-term changes in precipitation and stream discharge in the mid-Atlantic region – *Karen Rice, U.S. Geological Survey*
- 9:20 – 9:40      Arming the Confederacy: How Virginia’s minerals forged the rebel war machine – *Bob Whisonant, Radford University (Emeritus)*
- 9:40 – 10:00 a.m.      Break
- 10:00 – 11:00 a.m.      **Technical Session #2**
- 10:00 – 10:20      Assessment of offshore sand and heavy minerals on Virginia’s continental shelf: a progress report – *Billy Lassetter and Rick Berquist, Virginia Division of Geology and Mineral Resources*
- 10:20 – 10:40      Eocene formation of manganese oxide cements in Appalachian fault breccias: cryptomelane ages and petrographic relations – *Dan Doctor, U.S. Geological Survey*
- 10:40 – 11:00      Controls on the morphodynamics of Virginia’s barrier islands: is climate change a factor? – *Mike Fenster, Randolph Macon College*
- 11:00a.m. – noon      **Breakout Sessions – Current Issues in Virginia Geosciences**
- Breakout #1      Groundwater
  - Breakout #2      Energy
  - Breakout #3      Coastal Resiliency
- Noon – 1:00 p.m.      Lunch on your own – See list of local restaurants

- 1:00 – 2:30 p.m.      **Poster Session** (see list of posters on p. 3)
- 2:30 – 3:30 p.m.      **Technical Session #3**
- 2:30 – 2:50      Goochland tectonics: the role of A-type and peraluminous granites  
– *Stewart Farrar, Eastern Kentucky University*
- 2:50 – 3:10      The National Cooperative Geologic Mapping Program – *Darcy McPhee, U.S. Geological Survey*
- 3:10 – 3:30      Cretaceous dinosaur tracks near Fredericksburg, Virginia – *Rob Weems, U.S. Geological Survey (Emeritus)*
- 3:30 – 3:50 p.m.      Break with refreshments
- 3:50 – 4:50 p.m.      **Technical Session #4**
- 3:50 – 4:10      Provenance of ballast stone used in early 17<sup>th</sup> century foundations  
at Jamestown, Virginia – *Kelsey Watson, College of William and Mary*
- 4:10 – 4:30      Using LiDAR to identify sinkholes and other depressions in the  
Shenandoah Valley of Virginia – *Matt Heller, Virginia Division of  
Geology and Mineral Resources*
- 4:30 p.m.      **Summary and wrap-up**

## POSTERS

Author	Affiliation	Title
Anne Witt	DMME	LiDAR lineament analysis of the Central Virginia Seismic Zone - methodology and preliminary results
Bill Burton	USGS	Geology of the Ferncliff and Louisa quadrangles, Virginia
Bill Henika	DMME - VT	Geology of the Callaway quadrangle
Joshua Benton	USGS	TEMPORAL VARIATIONS IN DISCHARGE AND CHEMISTRY AT CAVE DRIPS IN GRAND CAVERNS, VIRGINIA
Mark Carter	USGS	U-Pb detrital zircon geochronology of terranes in the central Virginia piedmont
Mark Carter	USGS	Integration of multiple geophysical and soil datasets in the construction of a geological map in the Central Virginia Seismic Zone
Mercer Parker	JMU/USGS	Pressure and temperature analysis of amphibolites and schists from three metamorphic terranes to understand the tectonic history of the eastern Piedmont of Virginia
Rich Harrison	USGS	Geologic map of the Unionville & Rapidan quadrangles, Virginia
Liz McTaggart	JMU	Skarn Fluid History Recorded in the OH and Trace Element Zoning in a Raspberry Garnet from the Sierra de Cruces, Mexico
Nick Evans	Consulting Geologist	Geology of the Perkinsville quadrangle, Virginia
Marissa Dudek, Robin Rohrback, and Callan Bentley	NVCC	M.A.G.I.C.: An Online Repository of Gigapixel Imagery for Geoscience Education, Research, and outreach